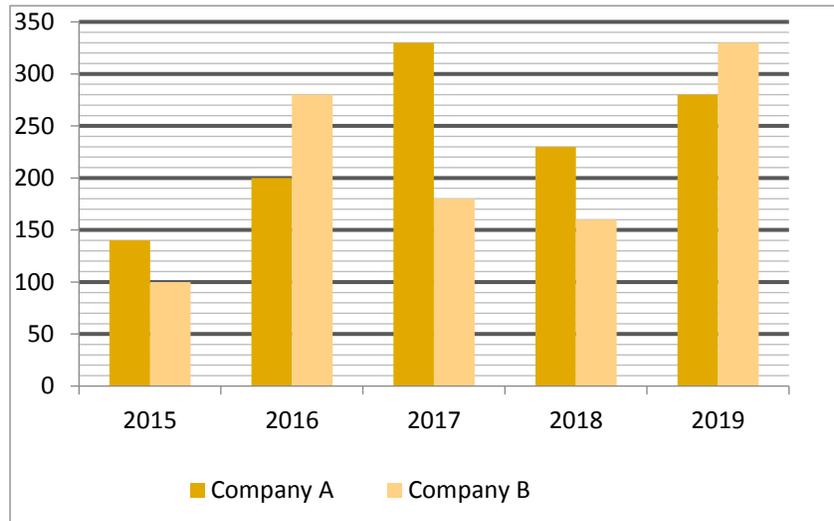


Quiz Date: 25th July 2020

Directions (1-5) : Following bar graph show the data regarding number of projects which is completed by company A and company B in 5 different years. Read the data carefully and answer the question



Q1. What is the ratio of total projects completed by company A to that of by company B?

- (a) 118:105
- (b) 105:118
- (c) 113:117
- (d) 113:105
- (e) 117:118

Q2. What is difference between the average number of projects completed by company A and the average number of projects completed by company B?

- (a) 20
- (b) 27
- (c) 26
- (d) 28
- (e) 30

Q3. Projects completed by company B in year 2019 is how much percent more than the projects completed by company A in year 2016?

- (a) 75%
- (b) 65%
- (c) 50%
- (d) 48%
- (e) 60%

Q4. Project completed by Company A in 2015, 2016 and 2017 together is what percent of total project completed by company B in 2017, 2018 and 2019 together?

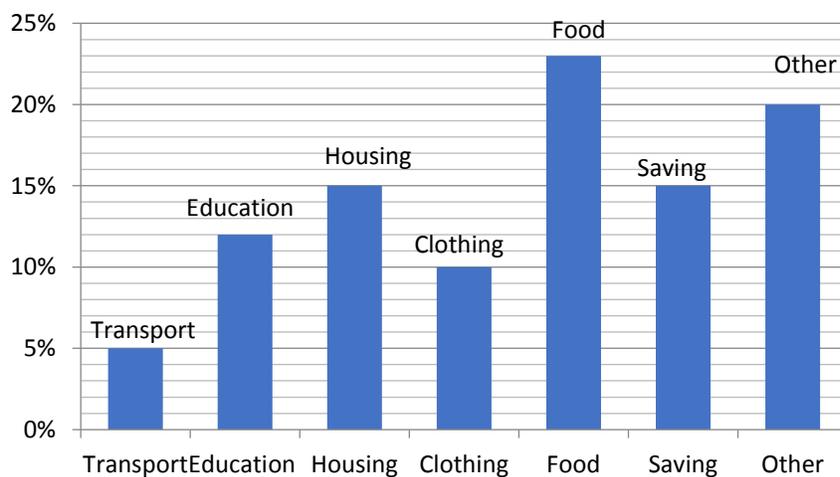
- (a) 50%
- (b) 120%
- (c) 100%
- (d) 80%
- (e) 110%

Q5. Total project completed in 2016 is how much less/more than the total project completed in 2019?

- (a) 200
- (b) 240
- (c) 220
- (d) 130
- (e) 190



Directions (6-10): Given below is the bar chart which shows the percentage of distribution of A's Income.



Total Income of A is 46,000

Q6. Amount spent on transport and education together is what percent more or less than amount spent on Clothing and Saving together.

- (a) 30%

- (b) 28%
- (c) 40%
- (d) 32%
- (e) 36%

Q7. What is the ratio of amount spend on “other” to the amount spend on “Food”.

- (a) 10 : 11
- (b) 23 : 20
- (c) 20 : 23
- (d) 3 : 4
- (e) 4 : 3

Q8. If distribution of income on education is increased by 25% then distribution on saving has to be decreased by what percent, so that overall distribution of all other distribution of income remains same as earlier.

- (a) 12%
- (b) 15%
- (c) 20%
- (d) 18%
- (e) 14%

Q9. If distribution on Clothing and Housing is increased by 20% and $33\frac{1}{3}\%$ respectively next year then what is the sum of distribution of income on these items next year approximately.

- (a) 14720
- (b) 12720
- (c) 13700
- (d) 14500
- (e) 13250

Q10. Average of distribution of income on Food and Clothing together is approximately what percent more or less than average of distribution of income on saving and Education together.

- (a) $22\frac{2}{9}\%$
- (b) $18\frac{4}{9}\%$
- (c) $11\frac{1}{95}\%$
- (d) $20\frac{1}{9}\%$
- (e) $11\frac{4}{9}\%$

Directions (11- 15): The following table shows the no. of calculators manufactured(M) and defective(D) among 4 different companies over the years.

Year	Company A		Company B		Company C		Company D	
	M	D	M	D	M	D	M	D
2014	63	11	55	07	86	28	66	11

2015	59	08	42	10	55	14	73	14
2016	60	08	58	8	65	6	78	20
2017	75	10	78	5	67	10	64	9
2018	80	21	82	3	92	12	58	17
2019	54	05	66	12	48	22	50	5

Note : (i) Non defective calculators = total manufactured – defectives

(ii) All the values given are in thousands (000)

Q11. Find the average no. of non-defective calculators manufactured by company A over the years. (Round off to nearest integer)

- (a) 65665
- (b) 52997
- (c) 51333
- (d) 54667
- (e) 58334

Q12. Total calculators manufactured by company A in 2016 and 2018 together are what percent more than calculators manufactured by company C in 2015 and 2016 together.

- (a) 50%
- (b) 20%
- (c) 40%
- (d) $16\frac{2}{3}\%$
- (e) 25%

Q13. What is the ratio between total calculators manufactured by company B in 2015 and 2017 together to calculators manufactured by company D in 2015, 2017 and 2018 together?

- (a) 5 : 8
- (b) 8 : 13
- (c) 8 : 9
- (d) 8 : 11
- (e) 7 : 11

Q14. In which year, total no. of defective calculators produced by all companies together are maximum?

- (a) 2014
- (b) 2015
- (c) 2016
- (d) 2017
- (e) 2018

Q15. Defective calculators produced by which company in 2015 is 80% of the defective calculators produced by company B in 2015?

- (a) Company A
- (b) Company C
- (c) Company D

- (d) Can't be determined
 (e) None of these

Solutions

S1. Ans(a)

Sol. Total projects completed by Company A = $140+200+330+230+280=1180$

Total project completed by company B = $100+280+180+160+330=1050$

\therefore required ratio = $1180 : 1050$

= $118 : 105$

S2. Ans(c)

Sol. Average number of projects completed by Company A = $\frac{1180}{5} = 236$

Average number of projects completed by Company B = $\frac{1050}{5} = 210$

Required difference = $236 - 210 = 26$

S3. Ans(b)

Sol. Required percentage = $\frac{330-200}{200} \times 100 = 65\%$



S4. Ans(c)

Sol. Project completed by company A in 2015, 2016 and 2017 together = $140+200+330= 670$

. Project completed by company B in 2017, 2018 and 2019 together = $180+160+330= 670$

Required percentage = $\frac{670}{670} \times 100 = 100\%$

S5. Ans(d)

Sol. Total project completed in 2016 = 480

Total projects completed in 2019 = 610

So project completed in 2016 is $(610 - 480) = 130$ less than projects completed in 2019.

S6. Ans.(d)

Sol.

Required percentage = $\frac{(10\% + 15\%) - (12\% + 5\%)}{(10\% + 15\%)} \times 100 = \frac{25 - 17}{25} \times 100 = 32\%$

S7. Ans.(c)

Sol.

Required ratio = 20 : 23

S8. Ans.(c)

Sol.

$$\begin{aligned} \text{Increased distribution on Education} &= \frac{125}{100} \times 12\% \text{ of total value} = \frac{5}{4} \times 12\% \\ &= 15\% \text{ of total value} \end{aligned}$$

Increment of (15% - 12%) = 3% of total value

So Distribution on saving has to be decreased by

$$= \frac{3}{15} \times 100 = 20\%$$

S9. Ans.(a)

Sol.

Sum of distribution on Clothing and Housing next year

$$\begin{aligned} &= \left(\frac{6}{5} \times 10\% + \frac{4}{3} \times 15\% \right) 46,000 \\ &= (12\% + 20\%) 46,000 = 14,720 \end{aligned}$$

S10. Ans.(a)

Sol.

$$\text{Average of distribution of Food and Clothing} = \frac{23\% + 10\%}{2} \times 46000$$

$$\text{Average of distribution of Saving and Education} = \frac{15\% + 12\%}{2} \times 46000$$

$$\begin{aligned} \text{Required percent} &= \frac{\frac{33\%}{2} \times 46000 - \frac{27\%}{2} \times 46000}{\frac{27\%}{2} \times 46000} \times 100 = \frac{6}{27} \times 100 = \frac{2}{9} \times 100 = \frac{200}{9} \\ &= 22\frac{2}{9}\% \end{aligned}$$

S11. Ans.(d)

$$\text{Sol. Required average} = \frac{52+51+52+65+59+49}{6} \approx 54667$$

S12. Ans.(d)

$$\text{Sol. Required percentage} = \frac{140-120}{120} \times 100 = 16\frac{2}{3}\%$$

S13. Ans.(b)

$$\text{Sol. Required ratio} = \frac{42+78}{73+64+58} = 8 : 13$$

S14. Ans.(a)

Sol. Maximum defective calculators were produced in 2014 i.e. 57000

S15. Ans.(a)

Sol. % for company A = $\frac{8}{10} \times 100 = 80\%$

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